SPYWOLF

Security Audit Report

Completed on
February 8, 2023

OVERVIEW

This audit has been prepared for **DEX Coyote** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

"

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

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DEX COYOTE

PROJECT DESCRIPTION

According to their whitepaper:

DexCoyote is a decentralized launchpad with zero entry threshold, instant listing via smart contract and floating commision.
The more sales, the lower the commission.

Release Date: Deployed at Oct 22, 2022

Category: ICO

01

CONTRACT INFO

Token Name
ICO_launchpad

Symbol
N/A

Contract Address
0x7159122C538e0fbB5ef2c08Ce86e61b196a3453D

Network
Binance Smart Chain

Language
Solidity

Deployment Date
Oct 22, 2022

Verified?
Yes

Total Supply
N/A

Status
Launched

TAXES

Buy Tax
none

Sell Tax
none

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

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TOKEN TRANSFERS STATS

Transfer Count	N/A
Uniq Senders	N/A
Uniq Receivers	N/A
Total Amount	N/A
Median Transfer Amount	N/A
Average Transfer Amount	N/A
First transfer date	N/A
Last transfer date	N/A
Days token transferred	N/A

SMART CONTRACT STATS

Calls Count	2
External calls	2
Internal calls	0
Transactions count	2
Uniq Callers	2
Days contract called	1
Last transaction time	2023-02-05 11:53:57 UTC
Created	2023-02-05 05:39:44 UTC
Create TX	0xc86c0fed82769685845ee662963fff8a5b0fdd8e9e444903158216e3586dba84
Creator	0xc4aa644b65abe57f8f4046b6dff93e1366d778f8

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

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THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠️ High Risk

ICO contract's owner can set fees without limitation.
These fees are deducted on each token buy from ICO creators.

```solidity
function changeFee(uint _newFee) external onlyOwner {
    fee = _newFee;
}

function buyTokens(address token, uint amountToBuy) external payable {
    require(msg.value * 10 ** IERC20(token).decimals() >= amountToBuy * ico[token].priceForToken,
    "Incorrect payment amount");
    require(ico[token].rest >= amountToBuy, "amount exceeds rest of token");
    uint valueWithFee = msg.value - (msg.value * fee/division);
    ico[token].bnb += valueWithFee;
    ico[token].rest -= amountToBuy;
    contractFee += msg.value - valueWithFee;
    IERC20(token).transfer(msg.sender, amountToBuy);
}
```

- Recommendation:
  - Consider setting the fees limiter to reasonable amount.

FOUND THREATS

⚠️ High Risk

If the ICO contract owner withdraws more bnb than the 'contractFee' variable value, owned bnb to ICO creator can be more than the current contract balance and the transaction will revert, causing the raised funds to stuck in the ICO contract.

```solidity
function withdraw_BNB_by_ICO_owner(address token) external {
    require(ico[token].owner == msg.sender, "Only ICO owner can withdraw");
    uint amount = ico[token].bnb;
    ico[token].bnb = 0;
    payable(msg.sender).transfer(amount);
}
```

- Recommendation:
  - Ensure that contractFee variable is adjusted accordingly.

⚠️ High Risk

ICO contract owner can withdraw BNB from the contract. contractFee variable is not decreasing, giving the ability to the ICO contract owner to withdraw bnb from the ICO contract indefinitely.

```
function withdrawFee(address payable _to) external onlyOwner {
    _to.transfer(contractFee);
}
```

- Recommendation:
  - Ensure that contractFee variable is decreased with each withdraw fee initiation from the ICO contract owner.

06-C

This is ICO fundraiser contract where anyone can put their token and raise initial liquidity in BNB. Current fees for each ICO purchase is 5%.

THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

⚠️ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.

Project Name

0x560668fd5bf39b908EeFeE18l07lCb7702aa837

KYC

CERTIFIC

This ha at

Proje me

Has passed the KYC veri on **November 20, 2022**

eted:

✓ Vi
✓ Vide h devs
✓ Owner ation

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*ALWAYS REVIEW AUDIT BEFORE INVESTING

MADE IN USA 🇺🇸

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Website URL
https://dexcoyote.com/

Domain Registry
https://www.reg.com

Domain Expiration
Expires on 2023-10-18

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Very nice color scheme and overall layout.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.
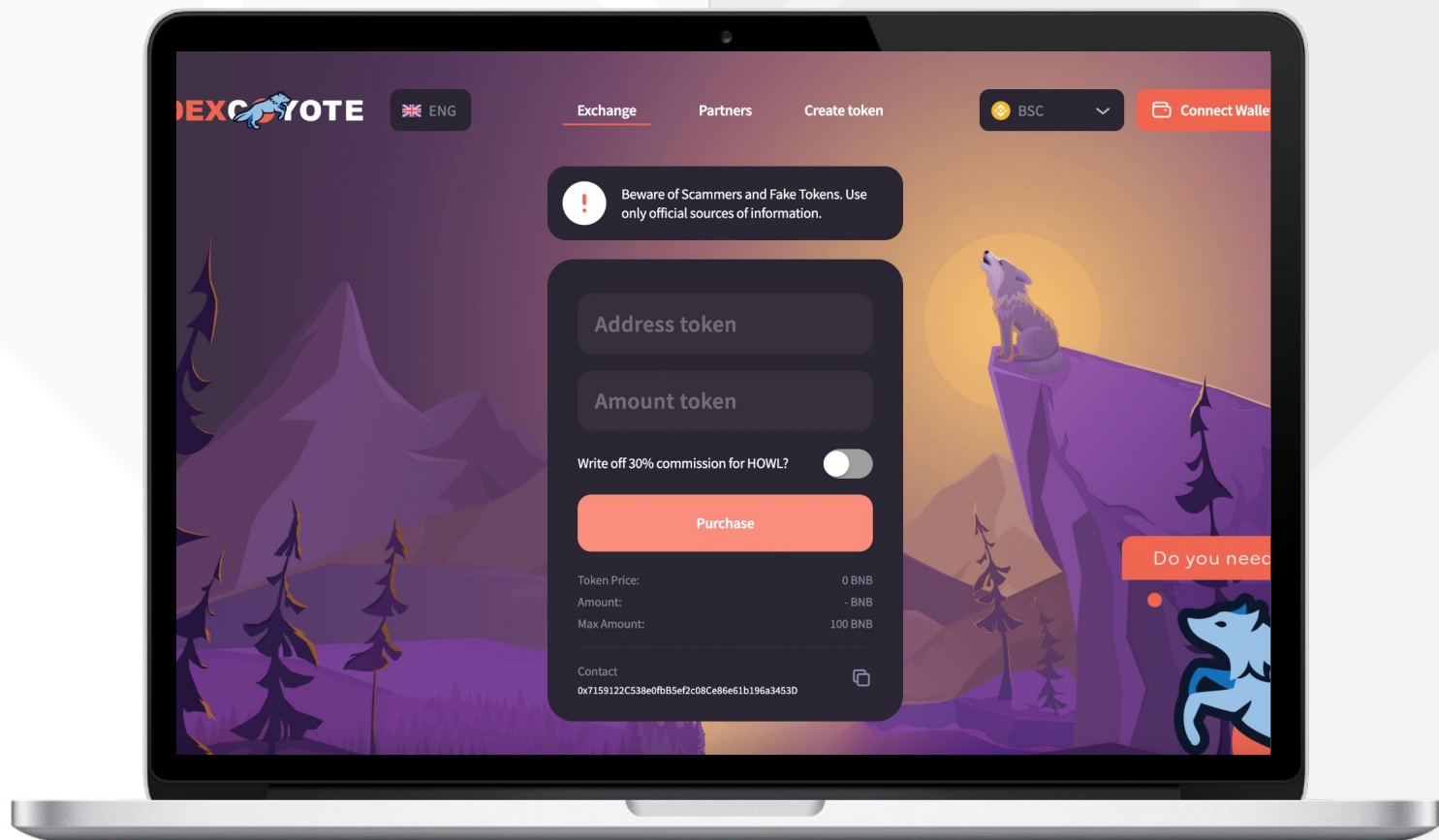
Whitepaper
Well written, explanatory.

Roadmap
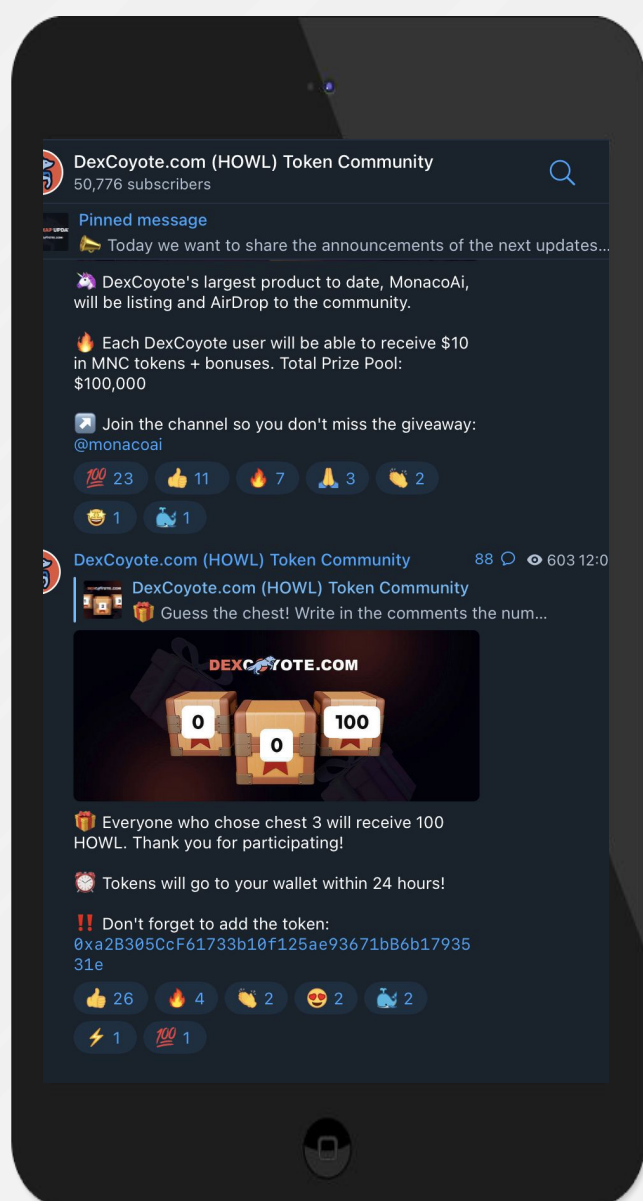Yes, goals set with time frames.

Mobile-friendly?
Yes

dexcoyote.com

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS
Project's social media channels are active with organic users.

Twitter
@dexcoyote

- 2 397 followers
- Posts frequently
- Organic activity

Discord

- Not available

Telegram
@coyotechat

- 1 611 members
- Active members
- Active mods

Medium
@dexcoyote

- 6 followers
- 2 articles

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CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.